

Aryan Anand

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Education

PES University, B.Tech in Computer Science Sept 2022 – May 2026
• **Coursework:** Data Structures & Algorithms, Computer Networks, Applied Cryptography, Big Data, Database Management, Database Technologies, Blockchain

Rajendra Vidyalaya, X - XII Mar 2020 – Mar 2022

Projects

BackendBro - AI-Powered Backend Code Generator aryan-212/BackendBro

- Developed an AI agent that generates **high-performance, multi-threaded backend systems** using Rust and Actix Web. Designed for scalability and efficiency, it automates CRUD operations and optimizes API development with the **Gemini API**.
- Tools Used: Actix Web, SQLx, Rust

DeepStalk - Multi-Threaded Dark Web Scraper aryan-212/DeepStalk

- Developed the world's fastest open-source .onion crawler, leveraging **Rust's async runtime**, Tokio for **concurrent networking**, and a high-performance frontier management system with **Bloom filters and priority queues**.
- Tools Used: Rust, Reqwest, Docker, ElasticSearch

Bash Scripting aryan-212/BashScripts

- Developed a script to automate dependency installation for the **Big Data Course Elective**, improving setup efficiency.
- Created an automation script for seamless login to **PESU's Wi-Fi Captive Portal**, reducing manual authentication time.
- Implemented a script to **configure and enable hibernation** on Arch Linux, streamlining system power management.

Technologies

Languages: Typescript, Rust, Go, Python, SQL

Technologies: Git, Docker, Kubernetes, Nginx, Github Actions

Tools: Neovim, VSCode, Linux

Backend & Systems Engineering: Axum, Actix, Node.js, Express, MongoDB, Redis, PostgreSQL, REST, Socket.io, Firebase

Distributed Computing & Big Data: Hadoop, Kafka, Redis Queue, Spark, Flink, ElasticSearch